

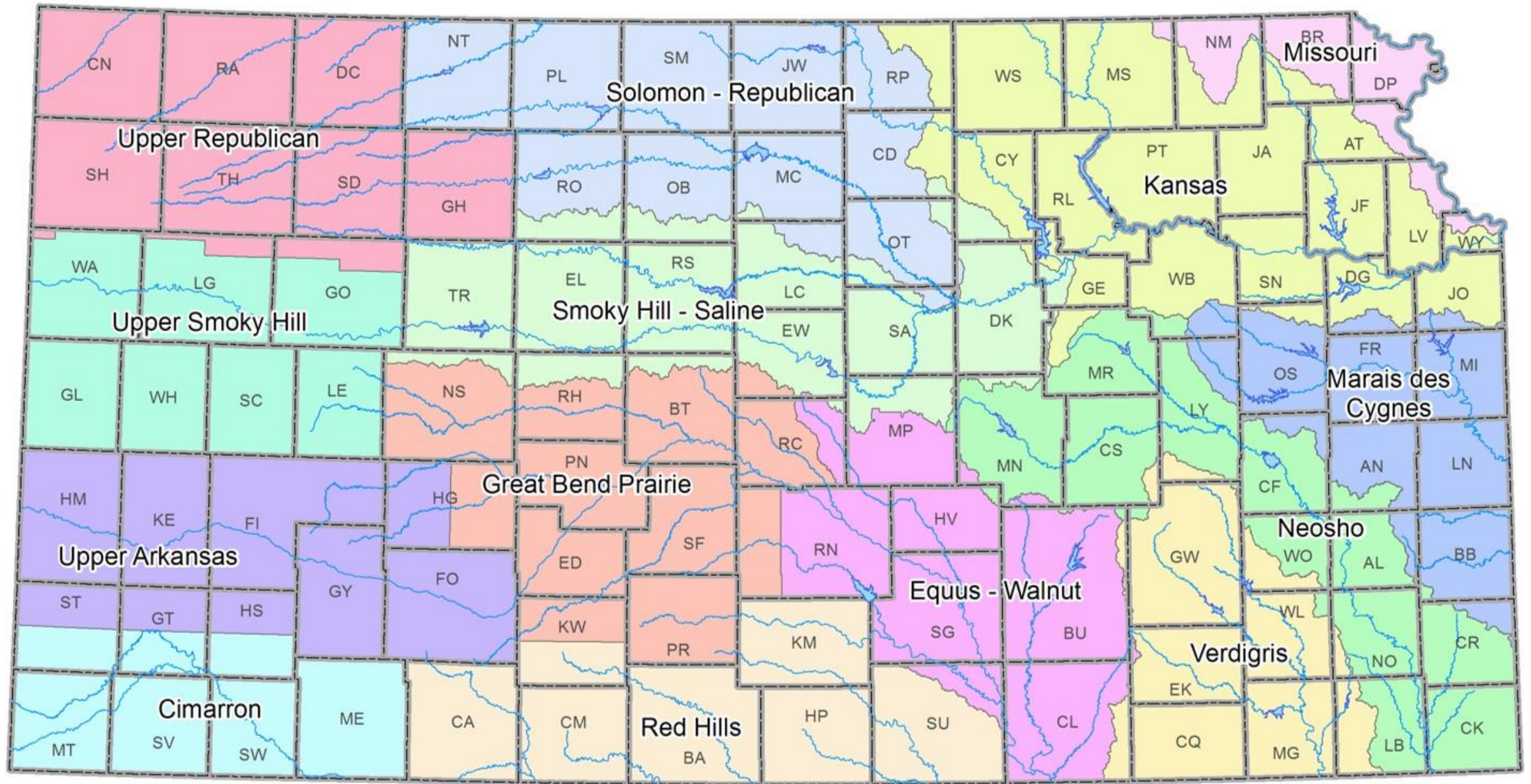
KANSAS WATER VISION IMPLEMENTATION – A REGIONAL APPROACH

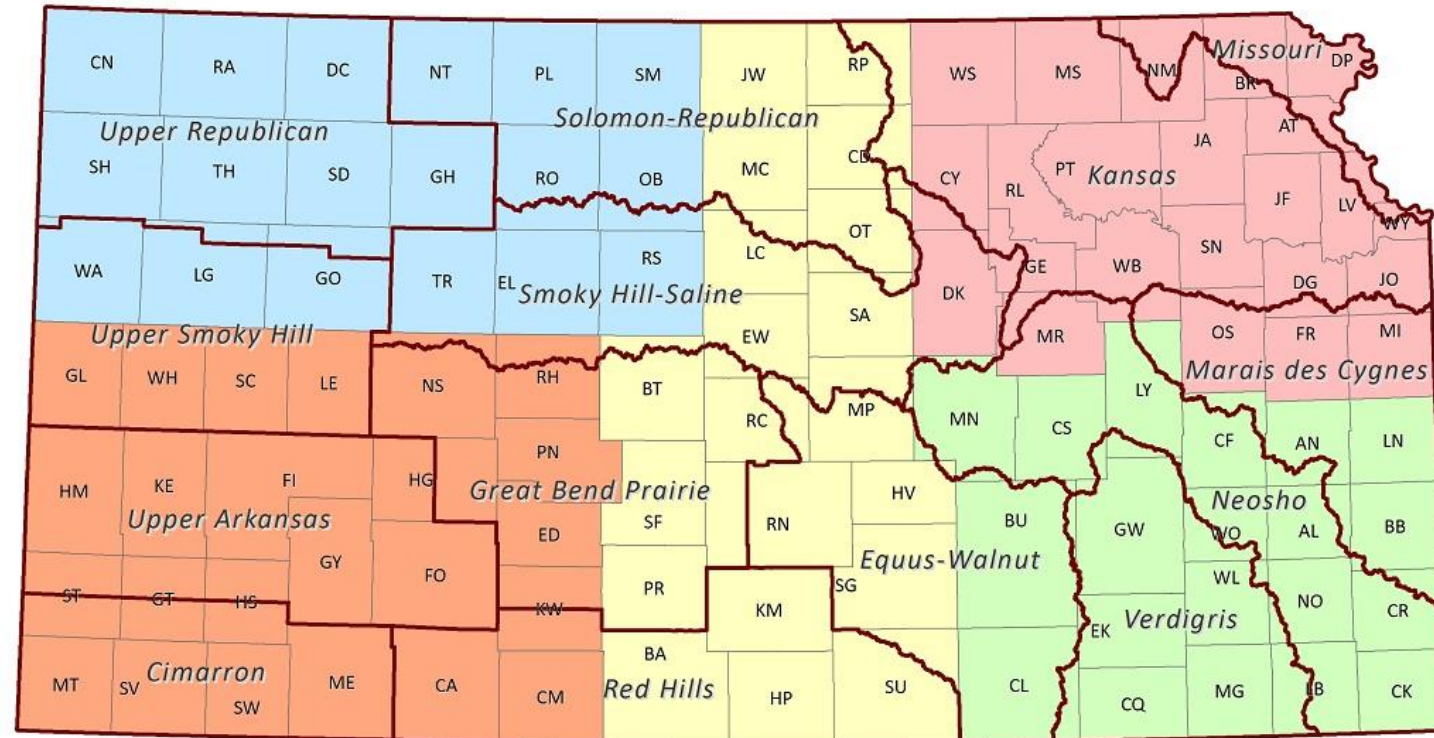


State Conservation Commission Area Spring Workshops

March 15, 2017

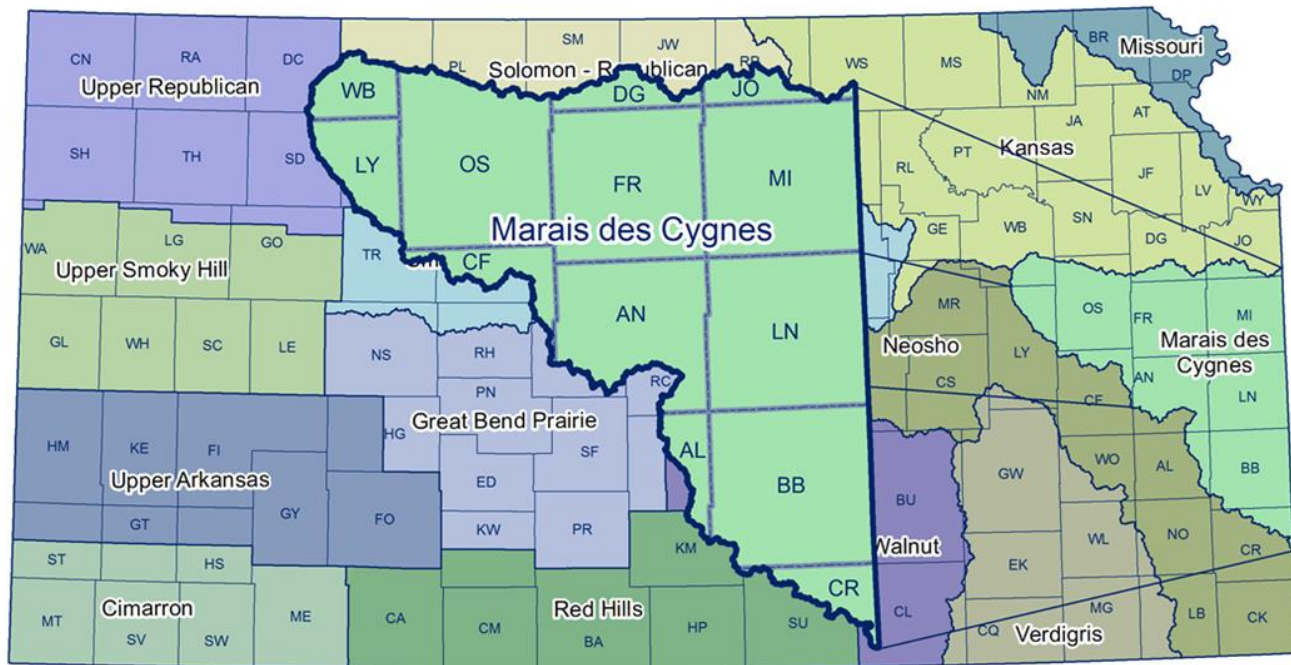
REGIONAL ADVISORY COMMITTEES



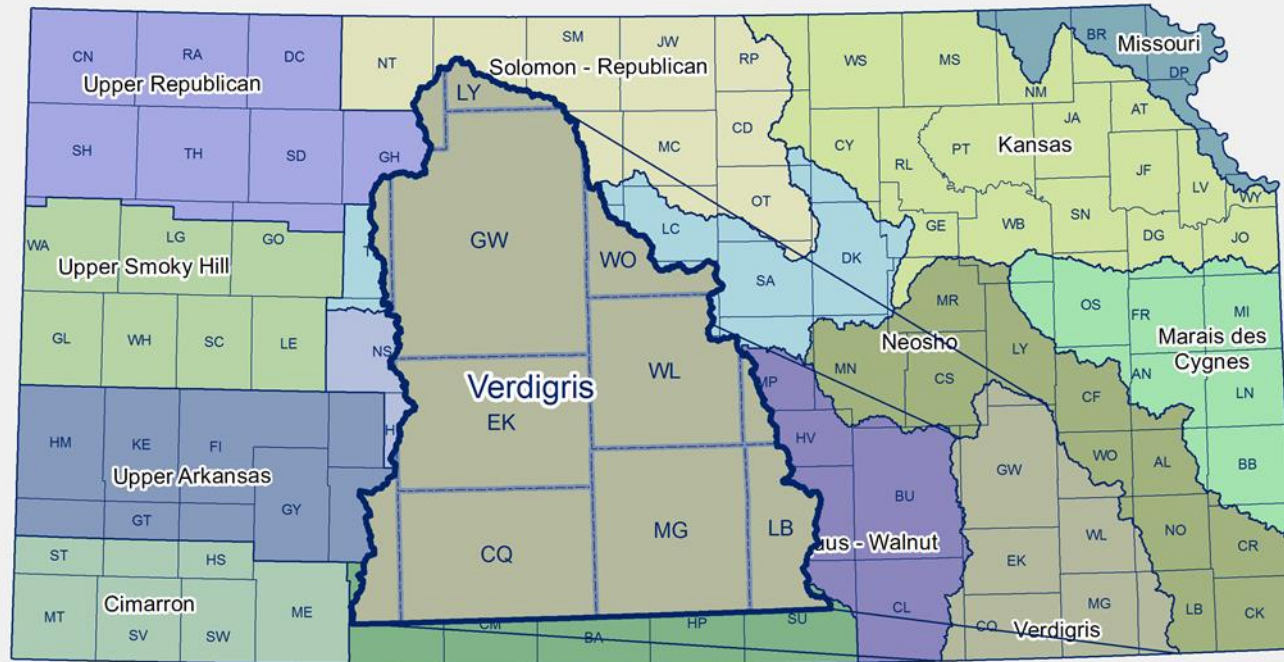


Kansas Conservation District Areas

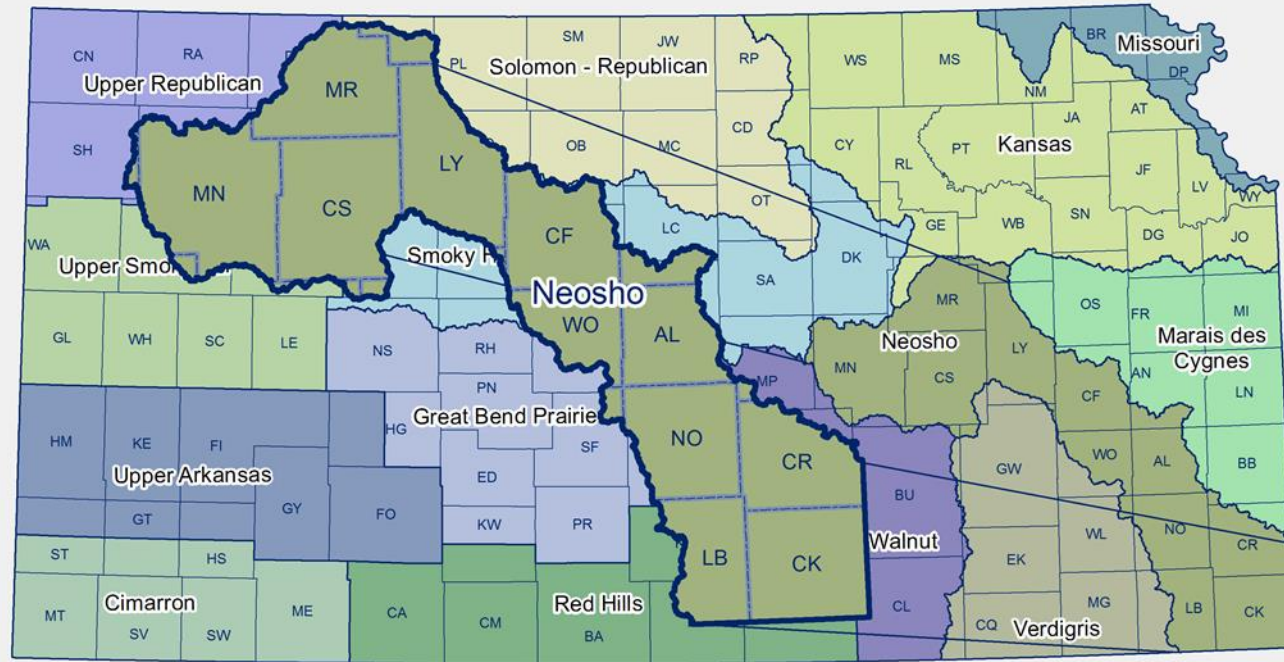




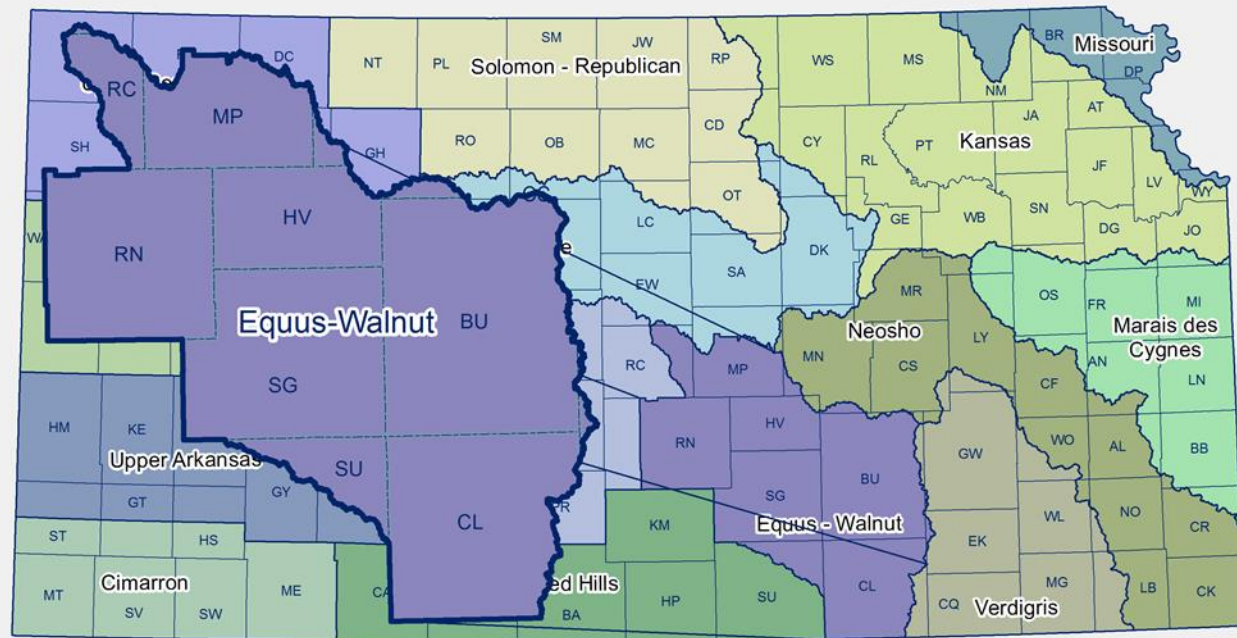
Membership			
Name	City	Category	Term
Lori Kuykendall (Chair)	Lyndon, KS	WRAPS	2019
Wes Sherman Cole	Osawatomie, KS	Industry/Commerce (cc)	2019
Ron Brown	Fort Scott, KS	Conservation/Environment (cc)	2017
Mike Gilliland	Osage City, KS	At Large Public (cc)	2019
Vacant		Agriculture 2	2017
Keri Harris	Ottawa, KS	At Large Public 2	2017
Paul Ling	Kansas City, KS	Water Assurance District	2019
Richard Nienstedt	Ottawa, KS	Public Water Supply 2	2019
George Pretz	Paola, KS	Agriculture (cc)	2017
Allan Soetaert	Gardner, KS	Public Water Supply (cc)	2019
Larry Walrod	La Cygne, KS	Planning & Zoning	2017
Lyle Wobker	Paola, KS	Agriculture 3	2019
Scott Yeargain	Ottawa, KS	Conservation/Environment 2	2017



Membership			
Name	City	Category	Term
Doug Blex (Chair)	Independence, KS	WRAPs	2019
Sam Atherton	Cherryvale, KS	At Large Public (cc)	2017
John Black	Howard, KS	Agriculture 2	2019
John Ditmore	Coffeyville, KS	Industry/Commerce (cc)	2019
Harold Engle	Madison, KS	Agriculture (cc)	2017
Gary Kelley	Sedan, KS	Conservation/Environment 2	2019
Ken McNickle	Mound City, KS	Public Water Supply 2	2017
Charles (Chuck) Shively	Coffeyville, KS	Public Water Supply (cc)	2019
Debbie Smith	Neodesha, KS	Conservation/Environment (cc)	2017
Ronald Smith	Fredonia, KS	Industry/Commerce 2	2017



Membership			
Name	City	Category	Term
Angela Anderson (Chair)	Allen, KS	WRAPs	2019
Joe Buchanan	Council Grove, KS	Public Water Supply (cc)	2017
Jay Byers	Pittsburg, KS	At Large Public (cc)	2017
Phillip Cooper	Emporia, KS	Water Assurance District	2019
Wes Fleming	Burlington, KS	Industry/Commerce (cc)	2019
John Hough	Cherokee, KS	Industry/Commerce 2	2017
Gary Kilgore	Chanute, KS	Agriculture (cc)	2019
Brian Obermeyer	Cottonwood Falls, KS	Conservation/Environment 2	2019
Larry Paine	Hillsboro, KS	At Large Public 2	2019
Galen (Pete) Peterson	Burdick, KS	Ranching/Grazing	2019
Nik Roth	Emporia, KS	Agriculture Industry	2017
Pat Sauble	Cedar Point, KS	Agriculture 2	2017
James Triplett	Pittsburg, KS	Conservation/Environment (cc)	2017



Membership			
Name	City	Category	Term
Steve Hieger (Chair)	Wichita, KS	Industry/Commerce (cc)	2019
Roger Black	Arkansas City, KS	Watershed Protection	2019
Kurt Bookout	El Dorado, KS	Public Water Supply 2	2017
Dan Haines	Leon, KS	Conservation/Environment 2	2019
Bob Seiler	Valley Center, KS	Groundwater Management	2019
Don Koci	Hutchinson, KS	Public Water Supply 3	2017
Jesse McCurry	Colwich, KS	Agriculture (cc)	2017
Brian Meier	Wichita, KS	Industry/Commerce 2	2017
Denise Noonan Middleton	Burden, KS	Agriculture 2	2019
Joseph Pajor	Wichita, KS	Public Water Supply (cc)	2019
Lewjene Schneider	Maize, KS	At Large Public (cc)	2017
Russell Tomevi	Winfield, KS	Integrated Planning	2019
Byron Warta	Newton, KS	Conservation/Environment (cc)	2017

KWA Approves RAC Action Plans

- Nearly 60 action plans developed by RACs in 2016
- 10 of 14 regions have watershed-based goals and action plans



BLUE RIBBON FUNDING TASK FORCE

Vision for the Future of Water Supply in Kansas

Supply

WATER

Conservation

Research

VISION

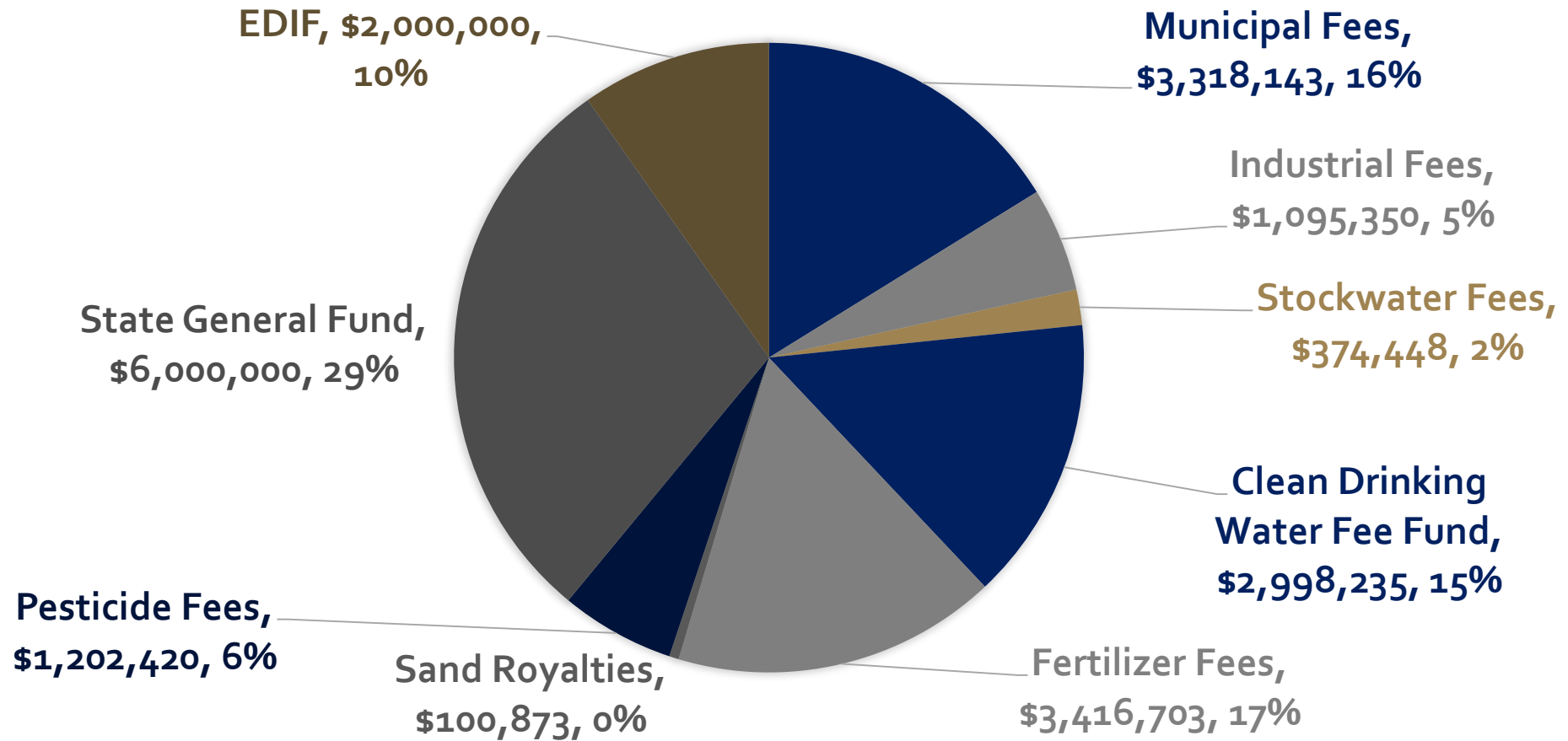
Action

Future

Technology

LOCAL

Review of existing funding and sources



Estimation of annual funding requirement to implement the Vision ~ \$55M

	Water Conservation	Water Management	Technology and Crop Varieties	Additional Sources of Water
Research		\$300,000	\$4,500,000	\$500,000
Education and Outreach	\$4,250,000		\$5,000,000	
Actions and Practices	\$21,900,000	\$100,000	\$1,500,000	\$17,500,000
Administration	Should agency administration be paid from implementation funds?			
Total	\$26,150,000	\$400,000	\$11,000,000	\$19,000,000

* Does not include estimated annual funding needs from Regional Advisory Committee Action Plans

Evaluation of various funding sources

- Increase existing State Water Plan Fund fees
- Water right fee/Irrigation fee
- Bottled drinking water fee
- Residential electric fee
- Statewide retail sales tax

CURRENT IMPLEMENTATION ACTIONS

Vision Implementation – New BMP \$

Key Concepts

- New funding not utilized to restore prior SWP reductions
- Projects “come towards the money”
- Kansas Basin Watershed Management System (KBWM) to serve as framework for allocation of new \$
- KWO will serve as the initial repository for new BMP funds

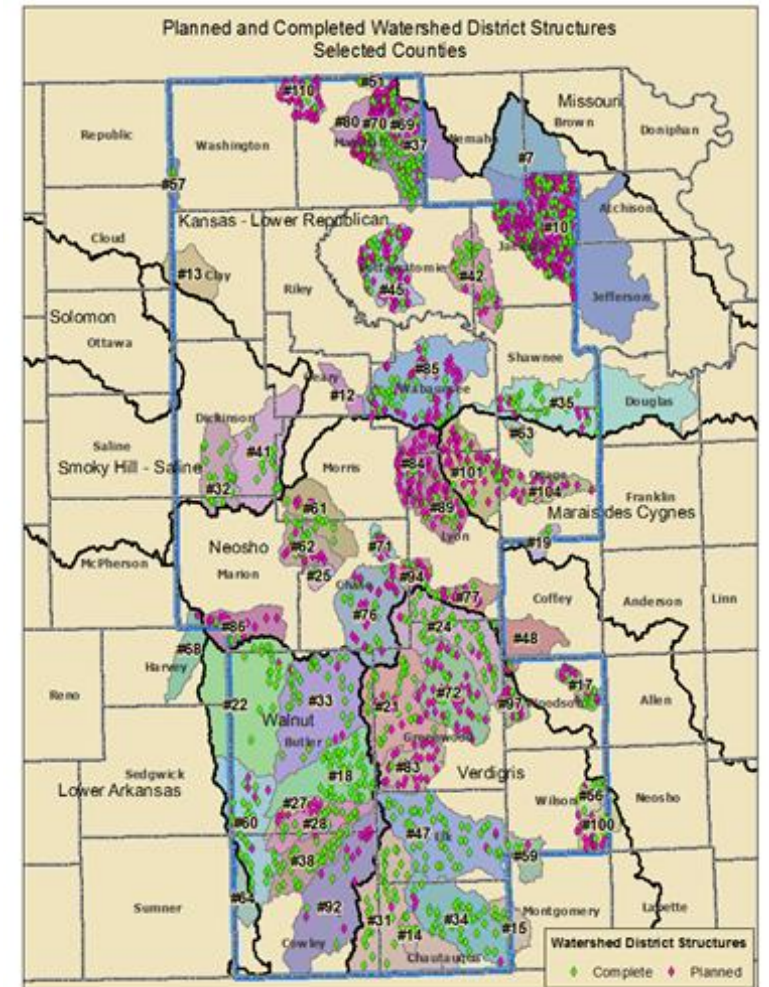
Key Concepts

- Increased technical assistance to facilitate BMP implementation is critical
- Additional on-the-ground coordination needs determined by KDHE
- Effective contract management system needed for administration of individual funded projects



KWA Project Sheet – Watershed Dams

- Update inventory of watershed dams
- Identify districts/sites that are strategically located above water supply reservoirs
- Conduct feasibility study of watershed dam construction
- Rehabilitate completed projects as needed
- \$1 - \$2 million estimated annual need



WATER TECHNOLOGY FARMS

Water Technology Farms



- Three Water Technology Farms established for 2016 growing season.
- KSU providing technical assistance at all three.
- Up to 7 additional farms to be added for 2017

FIELD DAY August 2, 2016
10 a.m.

Water Technology Farm — T&O Farms, LLC

South of Garden City on Hwy 83 (15.5 miles) • Turn west on T.V. Rd • Turn south on Stone Rd • Location on east side at large outbuilding (see back)

RSVP to the Kansas Water Office by July 26
1-888-KAN-WATER
kwo-info@kwo.ks.gov

AGENDA

Welcome
Tom Willis

Comments
Governor Brownback

Role of Water Technology Farms
Tracy Streeter

Introduce Partners
Technical Briefings
KSRE, Jonathan Aguilar
Seaman Crop Consulting, Loren Seaman
Dragon-Line, Monty Teeter

Tour of Farm
Lunch Provided
by Conestoga Energy Partners

SPONSORS

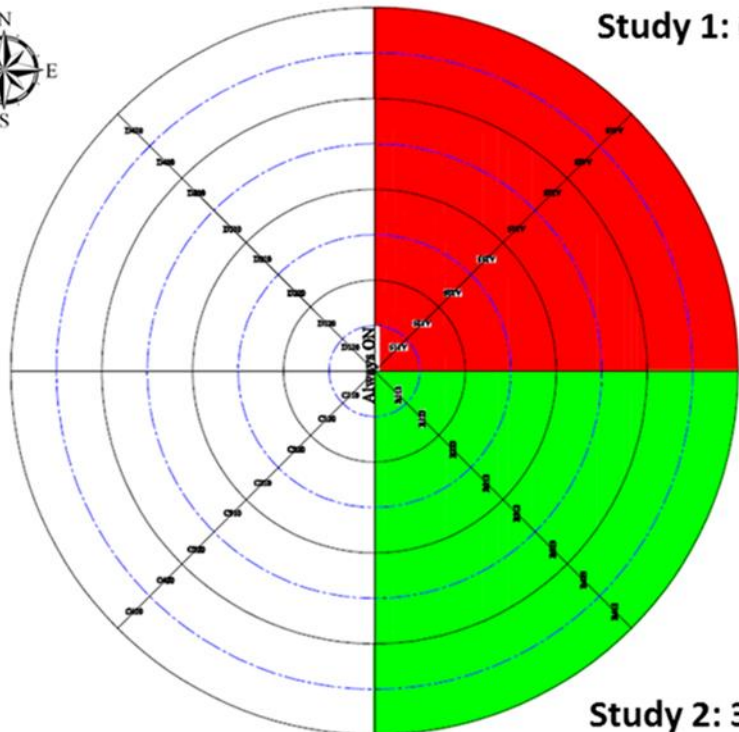
T&O Farms, LLC (Tom Willis)
Kansas Water Office
Kansas Department of Agriculture
United Sorghum Check-off Program
Kansas Corn Commission
Seaman Crop Consulting
SW Groundwater Management District #3
Conestoga Energy Partners
Teeter Irrigation
Dragon-Line
Helena
Kansas Geological Survey
Ogallala Aquifer Program
Syngenta
Hortau
Servi-Tech Expanded Premium Services
Kansas Farm Bureau
K-State- Mesonet
AquaSpy
CropMetrics
Netafim
Valley Irrigation
Presley Solutions

A public-private project for the conservation of the Ogallala aquifer implemented as part of the Kansas Water Vision

Showcase on a field scale, the latest technologies in irrigation infrastructure, irrigation water management, soil moisture management, conservation tillage, automation telemetry and other agronomic practices aimed at reducing water use.



Study 1: 600 gpm



Study 2: 300 gpm



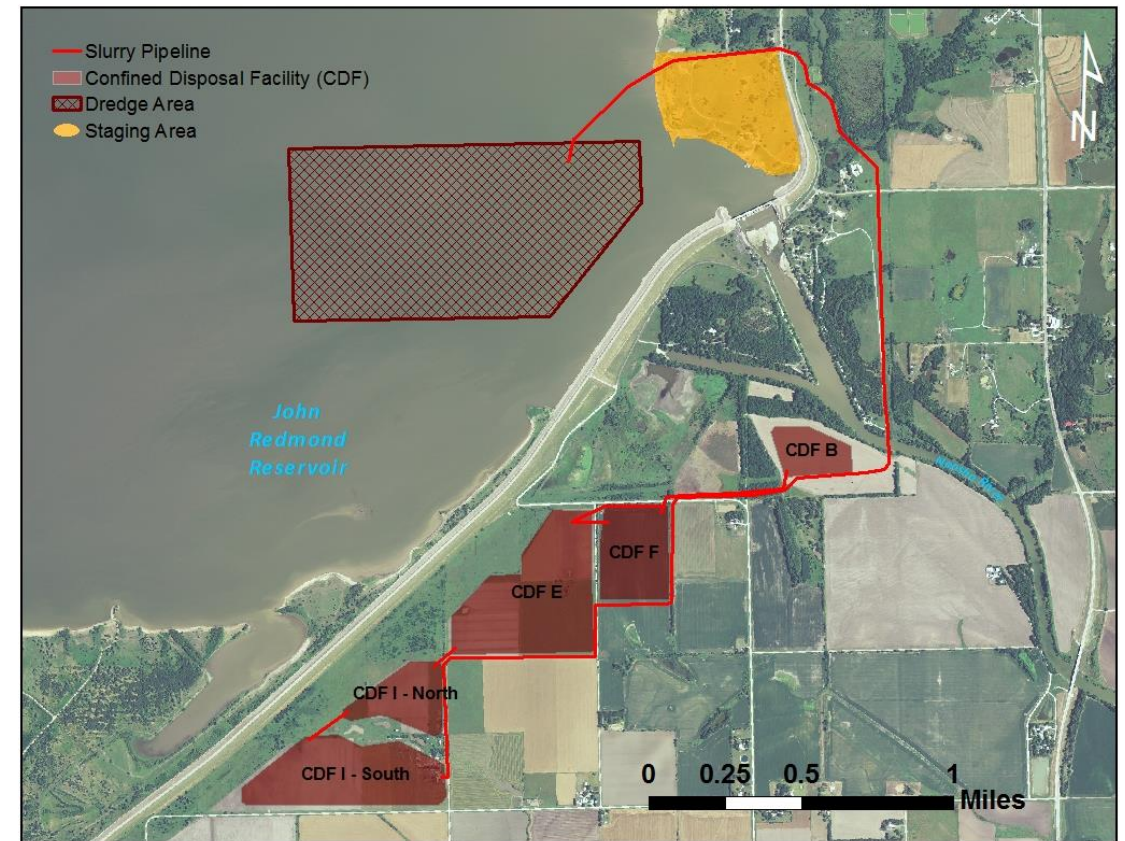
MDI Evaluation - KSU

- **2015 results comparing MDI to spray nozzles**
 - 30% reduction in evaporation
 - 14" applied @ 600 gpm - 8" @ 300 gpm
 - 247 bu/ac @ 600 gpm – 243 bu/ac @ 300 gpm
 - 10% increase in yield with MDI on the 300 gpm well
 - Water evenly distributed in soil profile
 - Dry soil surface
 - Minimal wheel tracks

RESERVOIR ACTIVITIES

John Redmond Reservoir Dredging

- Backup supply to state's only nuclear power plant
- 1st water supply dredging project at a USACE reservoir in the US
- Phase I completed ahead of schedule



John Redmond Reservoir Dredging



The Dredge

3,000,000 million cubic yards of deposited sediment removed

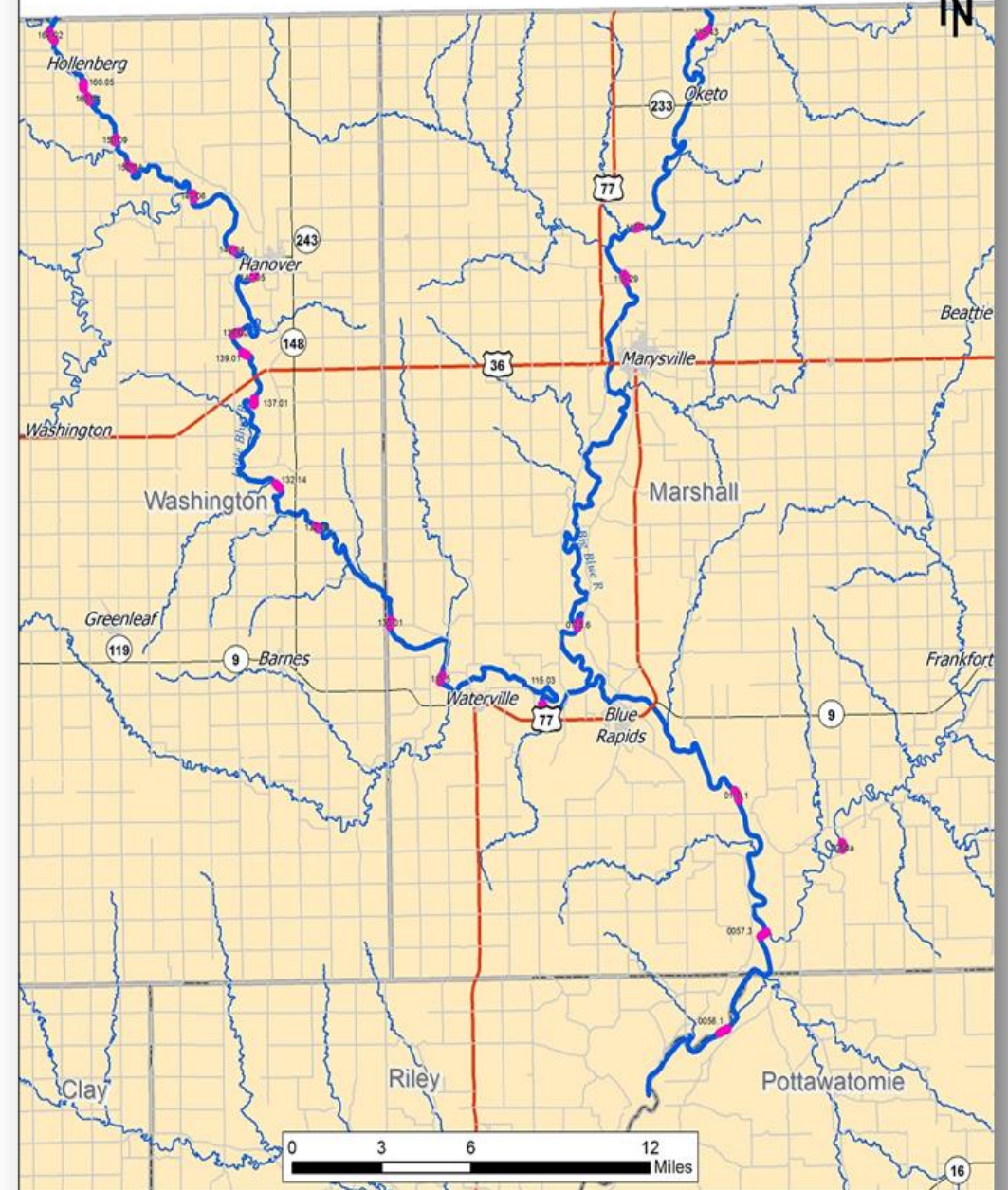


More than 1,800 acre-feet of storage restored

Restore and dispose up to three million cubic yards of sediment from John Redmond Reservoir.

Tuttle Creek Sediment Reduction

- Tuttle Creek WRAPS, KWO, KDHE and KDA-DOC coordinating and pooling funds to complete projects
- \$800,000 allocated for FY16 and FY17
- FY16 funding will be used to pay for the design of several projects above Tuttle Creek
- Construction will occur over the next couple of years

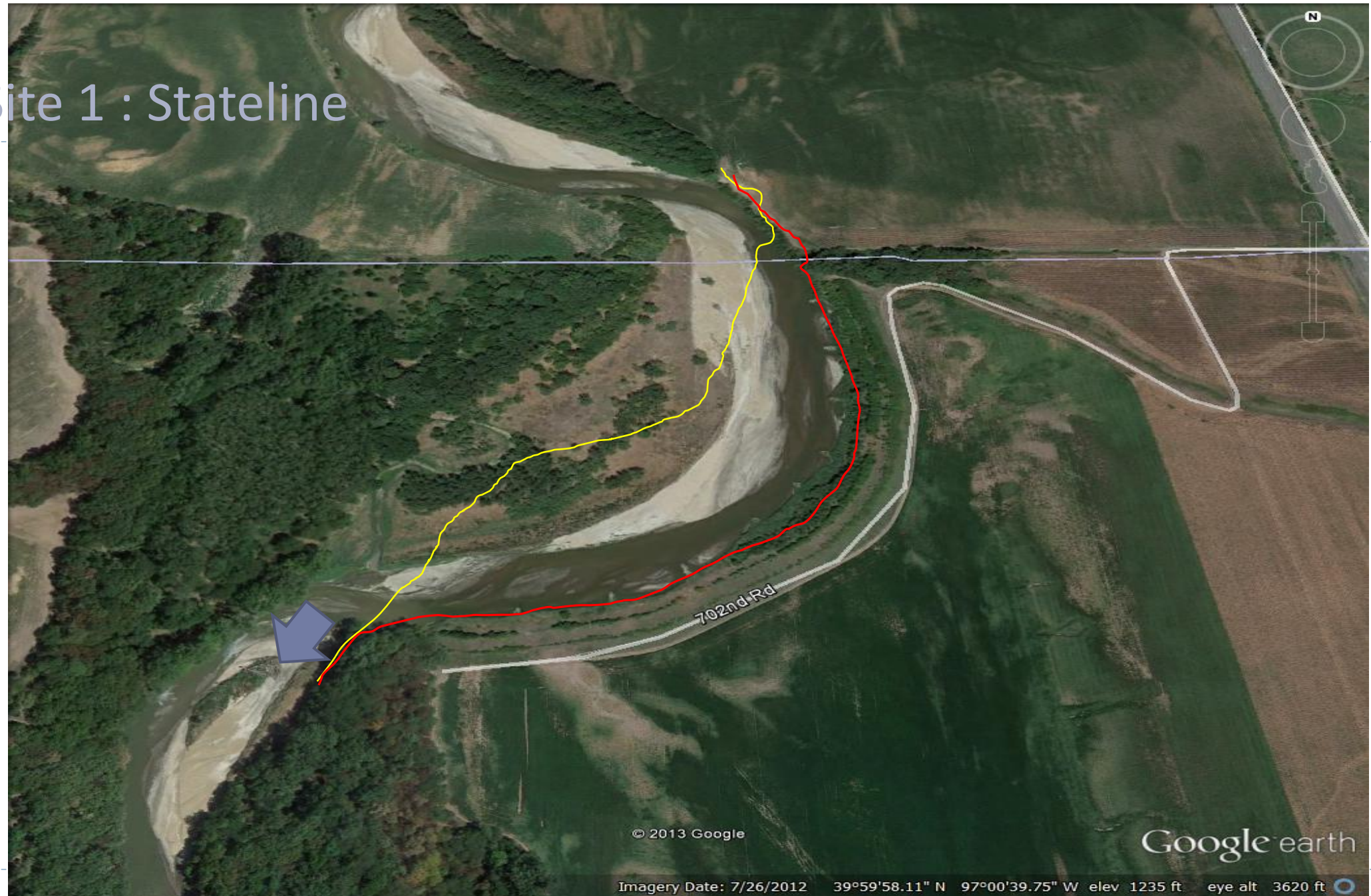


Top Eroding Streambanks: 76 - 100

Before & After



Site 1 : Stateline



Nutrients and Harmful Blue-Green Algae

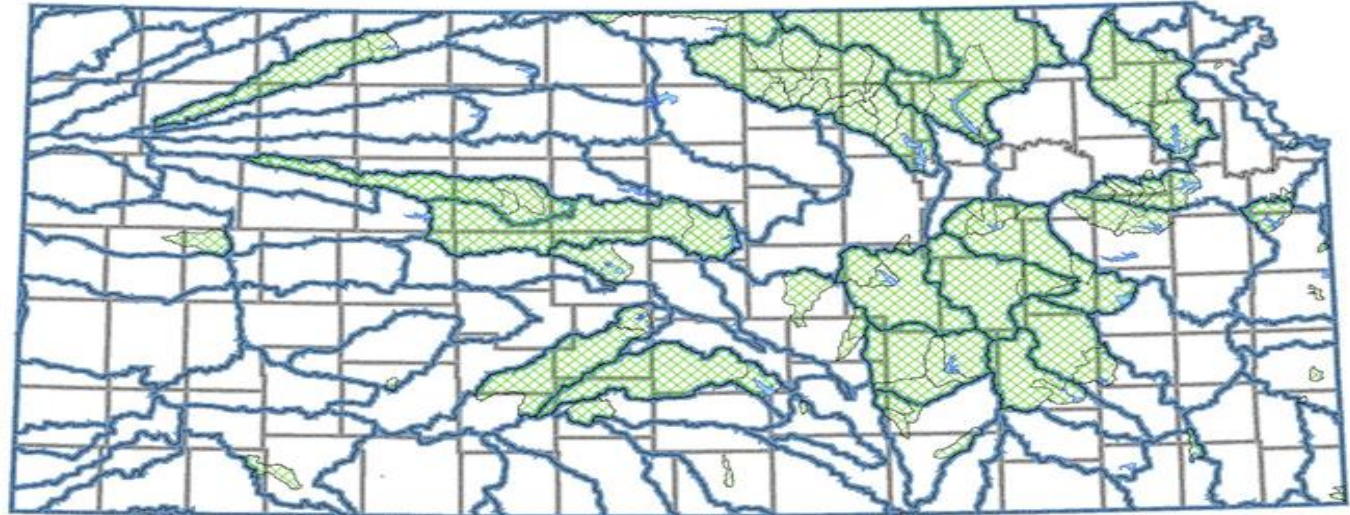
Milford, Marion Reservoirs & others.....



EQIP

- ▶ Ranking criteria for Water Quality funding modified
 - ▶ Maximum points to projects addressing Siltation, Phosphorus and Eutrophication

TMDL Priority Areas
Siltation, Total Phosphorus, and Eutrophication
With KDHE - TMDL Section Built Out Watersheds





QUESTIONS & DISCUSSION

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tracy.streeter@kwo.ks.gov

